Howard C. Johnson, Director

EPA Region 5 Records Ctr.



309399

June 8, 1984

Mr. Tom Budzik 25W154 Argyle Keeneyville, IL 60172

Dear Tom:

As requested, please find attached the latest monitoring results of Mallard Lake Landfill.

In the future, sampling and analysis data can be obtained at the Helen Plum Library. The District will be submitting landfill data on an annual basis to the library.

If you have any questions regarding the attached data, please call.

Sincerely,

Richard L. Utt

Superintendent of Landfill

ППП

cc: E. Heil

C. Liska (Illinois EPA)

Attachment



## TESTING SERVICE CORPORATION

457 East Gundersen Drive, Carol Stream, Illinois 60188

Consultation services
Foundation and site exploration
Testing of soils, concrete
and bituminous materials
Groundwater monitoring and
hydrogeologic studies

Telephone 312 653-3920

May 31, 1984

FOREST PRESERVE DISTRICT OF DU PAGE COUNTY P. O. Box 2339 Glen Ellyn, Illinois 60138

Attention: Mr. Scott Gerrick

RE: L - 19,559A

MALLARD LAKE SITE

Dear Mr. Gerrick,

We have completed the April 1984 purging and sampling work for the monitoring wells in connection with the above referenced site and have received the test results from Aqualab, Inc. Field procedures are as previously outlined.

The water level measurements and water sample temperatures are shown on the enclosed Field Data Chart.

The water samples were analyized for the following six (6) parameters; pH, Total Dissolved Solids, Chloride, Fe, Pb and Zn. In addition to the above, extra samples were taken for Monitoring Wells G-103, G-106 and G-112 for analysis of the following parameters: Alkalinity, Arsenic, Cadmium, Calcium, Sulfate, Chromium, COD, Copper, Tin, Hardness, Magnesium, Manganese, Mercury Nickel, Phenol and Potassium. The identity of the samples can be determined by the enclosed Chain of Custody Record. Two QA splits were taken as indicated.

We have reviewed the analytical data and have compared the first group of six (6) parameters listed above (for which we have background data) to the results of the previous four quarters. No unusual or significant changes were noted.

May 31, 1984

FOREST PRESERVE DISTRICT OF DU PAGE COUNTY

Attention: Mr. Scott Gerrick

Page 2 L - 19,559A

It has been a pleasure to assist you with this project. Please call if there are any questions.

Respectfully submitted,

TESTING SERVICE CORPORATION

Lawrence A. DuBose

President

LAD:BP:js

Enclosures: Field Data Chart

Aqualab, Inc. Analytical Report

Chain of Custody Record

Prepared by:

Bruce Poynor

Engineering Geologist

		FIELD DA	ATA CHART	<del> </del>	
MONITORING WELL	PRIC 4-20-8	OR TO PURGING	PRIOR TO 4-23	SAMPLING -84	WATER TEMPERATURE °F
G-101S	11.93	(792.71)	18.81	(785.83)	51
G-101D	37.75	(766.83)	46.37	(758.21)	49
G-102	44.19	(764.76)	44.58	(764.37)	51
G-103	43.87	(757.41)	54.00	(747.28)	52
G-104A	59.30	(735.46)	60.75	(734.01)	51
G-105A	52.02	(735.42)	52.53	(734.91)	52
G-106A	36.44	(744.20)	53.44	(727.20)	51
G-107A	9.16	(764.30)	8.40	(765.06)	52
G-108S	16.84	(767.32)	16.19	(767.97)	51
G-108D	40.58	(744.61)	41.65	(743.54)	51
G-109	13.79	(771.86)	14.43	(771.22)	50
G-110	38.85	(766.94)	40.84	(764.95)	53
G-111	33.53	(775.95)	38.09	(771.39)	52
G-112	40.83	(772.68)	45,20	(768.31	52
G-113	40.83	(765.27)	45.37	(760.73)	53

#### NOTES:

Monitoring Wells G-102 and G-112 were purged by bailing; others by pumping.

<sup>\*</sup> Depth referenced to top of steel protective casing.

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS 60188

L- 19,559A

CLIENT:	CHAIN ( FOREST PRESERVE DISTRICT	PROJ:		SAMPLER		
	OF DU PAGE COUNTY	MALLARD LAKE	SITE		Bail	er
SPL.				SPL. TYPE	NO.	MOTES
NO.	SPL. LOCATION	DATE - TIA	COMP.	grab	OF BTLS.	NOTES
274	G101S	4-23-84 8:3	1	х	1	
275	G101D	4-23-84 8:3	35	х	1	
276	G113	4-23-84 8:5	10	х	1	
277	G112	4-23-84 9:0	15	X	1	
278	G112	4-23-84		х	1	
279	G111	4-23-84 9:3	0	х	1	
280	G110	4-23-84 9:4	.5	x	1	
281	Glil QA Split			х	1	
282	G109	4-23-84 9:5	5	х	1	
283	G108S	4-23-84 10:1	0	х	1	
284	G108D	4-23-84 10:1	.5	х	1	
285	G107A	4-23-84 12:1	5	х	1	
286	G106A	4-23-84 12:0	0	х	1	
	RELINQUISHED BY	1	RECEIVE	D BY	_   E	DATE - TIME
TESTIN	G SERVICE CORPORATION	Aqua	lab, Inc	•		4-23-84

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS 60188

L- 19,559A

	CHAIN OF CUSTODY RECORD						
CLIENT:	FOREST PRESERVE DISTRICT	PROJ:		SAMPLER		<del></del>	
	OF DU PAGE COUNTY	MALLARD LAKE			Bail.	er	
SPL. NO.	SPL. LOCATION	DATE - TIME	WA	TER grab	NO. OF BTLS.	NOTES	
287	G106A	4-23-84		х	1		
288	G105A	4-23-84 11:35		x	1		
289	G104A	4-23-84 11:15		x	1		
290	G105 QA Split	4-23-84		х	1		
291	G103	4-23-84 10:50		х	1		
- 292	G103	4-23-84		х	1		
293	G102	4-23-84 10:30		x	1	<del></del>	
						·	
	RELINQUISHED BY	REC	CEIVED	BY	0	ATE - TIME	
		·		<del> </del>			
TEST	ING SERVICE CORPORATION	Aqu	alab,	Inc.	4	-23-84	

### 30 April 1984

55389-402

Mr. Bruce Poynor TESTING SER∀IÇE CORPORATION 457 E. Gunderson Carol Stream IL 60188

4/23/84

4/23/84

F	T	1	Т	EF	٩F	n
	7	_	•	F.	`∟	u

<del> </del>	pH units	Tot. Diss. Solids mg/L	Chloride mg/L	Iron mg/L	<u>Lead</u> mg/L	Zinc mg/L
274 ( <i>G10</i>	7.25	493.	16.	0.05	<0.01	0.029
275	7.37	627.	32.	0.04	<0.01	0.024
276	7.96	627.	4.	0.02	<0.01	0.009
279 🤄	7.22	787.	6.	0.02	<0.01	0.036
280	7.22	802.	4.	0.02	<0.01	0.025
281	~ 7.28	822.	4.	0.02	<0.01	0.033
282 (F)	6.82	966.	2.	0.03	<0.01	0.032
283 -	7.27	630.	<1.	0.03	<0.01	0.013
284 -	7.43	720.	<1.	0.06	<0.01	0.019
285	7.02	492.	4.	<0.01	<0.01	0.012
288	7.18	1137.	14.	0.09	<0.01	0.022
289	7.49	520.	6.	0.02	<0.01	0.012
290 = 🧧	· 7.27	1110.	14.	0.02	<0.01	0.021
293 (-	7.46	860.	<1.	0.02	<0.01	0.014

Pobert 1 Bucaro
Robert N. Bucaro

aqualab inc. rt 20 at valley lane streamwood, illinois 60103 312/289-3100



24 May 1984

analytical report

sample no. 55383

• Mr. Bruce Poynor TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION:

**FILTERED** 

date taken: 4/23/84

date receivèd:

4/23/84

				•	
Alkalinity (CaCO <sub>3</sub> )	348.	mg/L	Hardness (CaCO <sub>3</sub> )	1140.	mg/L
Arsenic	0.003	mg/L	Iron	<0.01	mg/L
Cadmium	<0.001	. mg/L	Lead	0.07	mg/L
Calcium	244.	mg/L	Magnesium	137.	mg/L
Solids, tot. diss.	1913.	mg/L	Manganese	0.068	mg/L
Sulfate	1090.	mg/L	Mercury	<0.0002	mg/L
Chloride	266.	mg/L	Nickel	0.02	mg/L
Chromium	<0.001	mg/L	<sub>:</sub> pH	7.38	units
COD	77.	mg/L	Pheno1	<0.005	mg/L
Copper	0.017	mg/L	Potassium	14.3	mg/L
Zinc	0.031	mg/L			
Tin	<0.01	mg/L			

Robert N. Bucaro



Mr. Bruce Poynor TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 278  $\sim \frac{1}{20}$ 

FILTERED

4/23/84

4/23/84

Alkalinity (CaCO <sub>3</sub> )	324.	mg/L	Hardness (CaCO <sub>3</sub> )	1180.	mg/L
Arsenic	0.003	mg/L	Iron	<0.01	mg/L
Cadmium	<0.001	mg/L	Lead	0.05	mg/L
Calcium	245.	mg/L	Magnesium	134.	mg/L
Solids, tot. diss.	2485.	mg/L	Manganese	0.068	mg/L
Sulfate	1080.	mg/L	Mercury	<0.0002	mg/L
Chloride	268.	mg/L	Nickel	0.02	mg/L
Chromium	<0.001	mg/L	рН	7.34	units
COD	77.	mg/L	Phenol	<0.005	mg/L
Copper	0.014	mg/L	Potassium	14.6	mg/L
Zinc	0.026	mg/L			
Tin	<0.01	mg/L			

Robert N. Bucaro

aqualab inc. rt 20 at valley lane streamwood, illinois 60103 312/289-3100



24 May 1984

# analytical report

sample no. 55385

 Mr. Bruce Poynor TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION:

286 - G106A

FILTERED

date taken: 4/23/84	date received: 4/23/84				
Alkalinity (CaCO <sub>3</sub> )	314.	mg/L	Hardness (CaCO <sub>3</sub> )	1120.	mg/L
Arsenic	<0.001	mg/L	Iron	0.05	mg/L
Cadmium	<0.001	mg/L	Lead	0.07	mg/L
Calcium	439.	mg/L	Magnesium	0.089	mg/L
Solids, tot. diss.	3913.	mg/L	Manganese	0.012	mg/L
Sulfate	<5.	mg/L	Mercury	<0.0002	mg/L
Chloride	6.	mg/L	.Nickel	0.03	mg/L
Chromium	<0.001	mg/L	<sub>:</sub> pH	11.48	units
COD	33.	mg/L	Pheno1	<0.005	mg/L
Copper	0.015	mg/L	Potassium	10.0	mg/L
Zinc	0.023	mg/L			
Tin	<0.01	mg/L			

Fobert N. Bucaro



Mr. Bruce Poynor TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 287 - 6 10 10 10

FILTERED

4/23/84

4/23/84

Alkalinity (CaCO <sub>2</sub> )	328.	mg/L	Hardness (CaCO <sub>3</sub> )	1080.	mg/L
Arsenic	<0.001	mg/L	Iron	0.03	mg/L
Cadmium	<0.001	mg/L	Lead	0.10	mg/L
Calcium	451.	mg/L	Magnesium	0.133	mg/L
Solids, tot. diss.	3707.	mg/L	Manganese	0.010	mg/L
Sulfate	<5.	· mg/L	Mercury	<0.0002	mg/L
Chloride	6.	mg/L	Nickel	0.03	mg/L
Chromium	<0.001	mg/L	рH	11.47	units
COD	37.	mg/L	Phenol	<0.005	mg/L
Copper	0.016	mg/L	Potassium	10.1	mg/L
Zinc	0.019	mg/L			
Tin	<0.01	mg/L			

Robert N. Bucaro

aqualab inc. rt 20 at valley lane streamwood, illinois 60103 312/289-3100



24 May 1984

analytical report

sample no.

55387

 Mr. Bruce Poynor TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION:

291 G103

FILTERED

date taken: 4/23/84	date received: 4/23/84					
Alkalinity (CaCO <sub>3</sub> )	128.	mg/L	Hardness (CaCO <sub>3</sub> )	190.	mg/L	
Arsenic	<0.001	. mg/L	Iron	0.04	mg/L	
Cadmium	<0.001	mg/L	Lead	0.03	mg/L	
Calcium	75.1	mg/L	Magnesium	0.032	mg/L	
Solids, tot. diss.	694.	mg/L	Manganese	0.006	mg/L	
Sulfate	23.	mg/L	Mercury	<0.0002	mg/L	
Chloride	2.	mg/L	Nickel	0.02	mg/L	
Chromium	<0.001	mg/L	<sub>:</sub> pH	10.97	units	
COD	33.	mg/L	Pheno1	<0.005	mg/L	
Copper	0.003	mg/L	Potassium	17.1	mg/L	
Zinc	0.006	mg/L				
Tin	<0.01	mg/L	•			





Mr. Bruce Poynor TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 292 GREE

FILTERED

4/23/84

4/23/84

Alkalinity (CaCO <sub>3</sub> )	106.	mg/L	Hardness (CaCO <sub>3</sub> )	202.	mg/L
Arsenic	0.001	mg/L	Iron	0.06	mg/L
Cadmium	<0.001	mg/L	Lead	0.04	mg/L
Calcium	74.7	mg/L	Magnesium	0.043	mg/L
Solids, tot. diss.	803.	mg/L	Manganese	0.004	mg/L
Sulfate	24.	mg/L	Mercury	<0.0002	mg/L
Chloride	2.	. mg/L	Nickel	<0.01	mg/L
Chromium	<0.001	mg/L	рH	10.98	units
COD	40.	mg/L	Pheno1	<0.005	mg/L
Copper	0.006	mg/L	Potassium	18.3	mg/L
Zinc	0.006	mg/L			
Tin	<0.01	mg/L			

Robert N. Bucaro



# TESTING SERVICE CORPORATION

457 East Gundersen Drive, Carol Stream, Illinois 60188

Consultation services Foundation and site exploration Testing of soils, concrete and bituminous materials Groundwater monitoring and hydrogeologic studies

Telephone 312 653-3920

September 11, 1984

FOREST PRESERVE DISTRICT OF DU PAGE COUNTY P. O. Box 2339 Glen Ellyn, Illinois 60138

Attention: Mr. Scott Gerrick

Environmental Control Manager Governmental Services Dept.

RE: L - 19,559A

MALLARD LAKE SITE

Dear Mr. Gerrick:

We have completed the July, 1984 purging and sampling work for the monitoring wells at the above mentioned site and have received the test results from Aqualab. Inc. Our field procedures in performing this work are as outlined in a previous correspondence dated September 6, 1983, with the above job number. All wells were purged using a submersible pump, except Wells G-102, G-108D and G-112, which were purged by bailing.

The water level measurements and water sample temperatures are shown on an enclosed Field Data Chart.

The water samples were tested by Aqualab, Inc. for the following six (6) parameters: pH, Total Dissolved Solids, Chloride, Iron, Lead and Zinc. Cadmium and COD, due to a misunderstanding were also tested. The results obtained from these samples are shown on the enclosed Aqualab, Inc. Analytical Reports. The identity of the sample numbers can be determined by the enclosed Chain of Custody Record.

We have reviewed the analytical data and compared it to results from the previous five (5) quarters. No unusual or significant changes were noted.

It has been a pleasure to assist you with this project. Please call if there are any questions.

Respectfully submitted,

TESTING SERVICE CORPORATION

Lawrence A. DuBose

President

Prepared by:

Daniel J. Pld

Geologist

LAD:DJP:js

Enclosures:

FIELD DATA CHART						
		WATER DEPTH* IN FEE	LEVEL	VATION		
MONITORING WELL	PR	IOR TO PURGING 7-17-84		O SAMPLING 18-84	WATER TEMPERATURE °F	
G-101S	11.33	(793.31)	17.06	(787.58)	51	
G-101D	37.94	(766.64)	49.28	(755.30)	50	
G-102	42.95	(766.00)	43.55	(765.40)	49	
G-103	43.24	(758.04)	55.72	(735.94)	51	
G-104A	64.35	(730.41)	65.34	(729.42)	49	
G-105A	57.06	(730.38)	58.04	(729.37)	50	
G-106A	40.31	(740.33)	50.24	(730.4)	50	
G-107A	13.05	(760.41)	13.28	(760.18)	51	
G-108S	14.99	(769.17)	15.50	(768.66)	50	
G-108D	40.03	(745.16)	47.32	(737.87)	Not Possible Insufficient Sample	
G-109	15.74	(769.91)	21.70	(763.95)	50	
G-110	38.80	(766.99)	43.27	(762.52)	49	
G-111	34.71	(774.77)	39.16	(770.32)	51	
G-112	48.48	(765.03)	48.78	(764.73)	51	
G-113	40.69	(765.41)	47.62	(758.48)	51	

## NOTES:

Monitoring Wells G-102, G-108D & G-112 were purged by bailing; others by submersible pump.

<sup>\*</sup> Depth referenced to top of steel protective casing.

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS 60188

L- 19,559A

	CHAIN	OF C	USTO	DY	RECORD				
CLIENT: FOREST PRESERVE DISTRICT OF DU PAGE COUNTY		PROJ:	PROJ: MALLARD LAKE SITE			SAMPLER(S): D. Plomb			
SPL. NO.	SPL. LOCATION	1	- TIME			NO. OF BTLS.	NOTES		
407	G 101D	7-18	8:10		х	1			
408	G 101S	7-18	8:15		х	1			
409	G 113	7-18	8:25		х	1			
410	G 112	7-18	8:35		X	1			
411	G 111	7-18	8:50		Х	1			
412	G 112 QA Split	7-18	8:35		х	1			
413	G 110	7-18	8:57		х	1			
414	G 109	7-18	9:40		х	1			
415	G 108S	7–18	9:50		х	1			
416	G 108D	7–18	9:55		х	1			
417	G 107A	7-18	10:05		х	1			
418	G 106A	7-18	10:15		х	1			
419	G 105A	7-18	10:30		х	1			
RELINQUISHED BY			RECEIVED BY				ATE - TIME		
TESTING SERVICE CORPORATION			AQU		7-18-84				
			<u> </u>	<u> </u>					
		1							

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS 60188

**L-** 19,559A

FOREST PRESERY OF DU PAGE COI SPL. LOC	JNTY .	PROJ:			SAMPLER		<del></del>	
SPL. LOC			PROJ: MALLARD LAKE SITE			D. F	D. Plomb	
	ATION		- TIME			NO. OF BTLS.	NOTES	
G 106A	QA Split	7-18	10:45		X	1		
G 104A		7-18	10:55		х	1		
G 103		7-18	11:00		Х	1		
G 102		7–18	11:20		х	1		
···								
	•						·····	
		<u> </u>						
	···						•	
RELINQUISHED BY TESTING SERVICE CORPORATION			RECEIVED BY DATE -				ATE - TIME	
		AQUALAB, INC. 7-18-84					7-18-84	
	···		<u>.</u>				<del></del>	
		<del> </del>					<del></del>	
	G 102  G 102  ELINQUISHED	G 102  G 102  ELINQUISHED BY	G 102 7-18  G 102 7-18  ELINQUISHED BY	G 103 7-18 11:00  G 102 7-18 11:20	G 103 7-18 11:00  G 102 7-18 11:20  ELINQUISHED BY RECEIVED	G 103 7-18 11:00 X G 102 7-18 11:20 X  ELINQUISHED BY RECEIVED BY	G 103 7-18 11:00 X 1  G 102 7-18 11:20 X 1  ELINQUISHED BY RECEIVED BY	



31 July 1984

analytical report

sample no. 57559-575

Mr. Bruce Poynor TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

date taken:	7/18/84		date received: 7/	18/84 1145		
	FILTERED	Tot. Diss.				-
	<u>pH</u> units	Solids mg/L	<u>Chloride</u> mg/L	<u>Lead</u> mg/L	Cadmium mg/L	COD mg/L
407	7.24	300.	34.	<0.01	<0.001	<3.
408	7.15	420.	14.	<0.01	<0.001	<3.
409	7.51	200.	2.	<0.01	<0.001	17.
410	7.02	<b>2</b> 620.	102.	<0.01	0.007	64.
411	7.20	520.	4.	<0.01	0.003	23.
412	7.28	2715.	104.	<0.01	0.006	57.
413	7.15	715.	2.	<0.01	<0.001	7.
414	6.89	1800.	2.	<0.01	0.004	7.
416	6.95	1465.	2.	<0.01	0.005	44.
415	6.95	585.	<1.	<0.01	<0.001	33.
417	7.03	425.	4.	<0.01	<0.001	7.
418	9.94	3216.	4.	<0.01	0.004	<3.
419	7.01	765.	32.	<0.01	<0.001	23.
420	9.99	3060.	2.	<0.01	0.004	<3.
421	7.11	540.	<1.	<0.01	<0.001	20.
422	9.65	630.	<1.	<0.01	<0.001	40.
423	6.96	630.	2.	<0.01	<0.001	<3.



A 11.





24 August 1984

analytical report

sample no. 57559A-57634A

Mr. Bruce Poyner TESTING SERVICE CORPORATION 457 Gunderson Carol Stream IL 60187

date taken: date received: 8/13/84

## Filtered:

Sample Description	I <del>ron</del> mg/L	Zinc mg/L
407	0.04	<0.001
<b>4</b> 08	<0.01	0.022
409	<0.01	<0.001
410	<0.01	0.021
411	<0.01	<0.001
412	0.12	0.042
413	<0.01	<0.001
414	<0.01	0.031
415	0.02	<0.001
416	0.02	0,032
417	<0.01	<0.001
418	0.02	0.033
419	0.02	0.007
420	0.03	0.040
421	<0.01	0.007
422	0.02	0.017
423	<0.01	0.007
424	<0.01	0.028 Robert N. Bucaro

(in)

continued...

A 1:.

file capy

NOVEMBER 7, 1984

TO:

SUPERINTENDENT UTT

FROM:

ENVIRONMENTAL CONTROL MANAGER GERRICK

RE:

MALLARD LAKE WATER QUALITY - OCTOBER 1984

Attached for your review are the water quality reports from the monitoring wells at Mallard Lake landfill.

I have contacted Testing Service Corporation to obtain water samples from Heil's office for up gradient background information during the December sampling round.

Сj

Attachment

cc: J. Hartwig



## TESTING SERVICE CORPORATION

457 East Gundersen Drive, Carol Stream, Illinois 60188

Consultation services
Foundation and site exploration
Testing of soils, concrete
and bituminous materials
Groundwater monitoring and
hydrogeologic studies

Telephone 312 653-3920

November 1, 1984

FOREST PRESERVE DISTRICT OF DU PAGE COUNTY P. O. Box 2339 Glen Ellyn, Illinois 60138

Attention: Mr. Scott Gerrick

Environmental Control Manager Governmental Services Dept.

RE: L - 19,559A

MALLARD LAKE SITE

Dear Mr. Gerrick:

We have completed the October, 1984 purging and sampling work for the above referenced site and have received the test results from Aqualab, Inc. Our field procedures in performing this work are outlined in a previous correspondence dated September 6, 1983, with the above job number. Due to the failure of our submersible pump during the course of the work, Wells G-102 thru G-109 were purged by bailing. Wells G-101S, G-101D and Wells G-110 and G-113 were purged by a submersible pump prior to its failure.

Water level measurements and water sample temperatures, along with a depth measurement to the bottom of the well or sediment inside the casing, are shown on an enclosed Field Data Chart.

The water samples were tested by Aqualab, Inc. for the following six (6) parameters: ph, Total Dissolved Solids, Chloride, Lead and Zinc. The results obtained from these are shown on the enclosed Aqualab, Inc. Analytical Report. The identity of the sample numbers can be determined by the enclosed Chain of Custody Record.

Also enclosed is an electronic spreadsheet for each well from our computer file established for this project. This lists the analytic data recently obtained, as well as the previous six (6) quarters, and compares them. Review of this data shows a steady decrease in the concentration of Total Dissolved Solids in Well G-103 between January, 1984 and the present. No other unusual or significant changes were noted.

It has been a pleasure to assist you with this project. Please call if there are any questions.

Respectfully submitted,

TESTING SERVICE CORPORATION

Lawrence A. DuBose

President LAD:DJP:js

Dr. Lawrence A. DuBose

Charles C. Luther Executive Vice-President Lyle E. Thompson Vice-President Daniel J. Plomb

Prepared by:

Geologist

Noble D. Moran Vice-President Bruce Poynor Engineering Geologist

#### aqualab inc. rt 20 at valley lane streamwood, illinois 60103 312/289-3100



22 October 1984

analytical report

sample no. 59324-335

Mr. Bruce Poyner TESTING SERVICE CORPORATION 457 E. Gunderson Carol Stream IL 60188

date taken:	-		date received: 10/5/84 1200							
Filtered First:										
Sample Description	pH units	Chloride mg/L	Solids, tot. diss.	Iron mg/L	Zinc mg/L	Lead mg/L				
541 G1011)	7.27	28.	370.	0.04	0.004	<0.01				
542 G1015	6.95	14.	440.	<0.01	0.012	<0.01				
543 G113	7.31	2.	240.	0.02	0.003	<0.01				
544 G-112	6.88	78.	1245.	0.09	0.008	<0.01				
545 G/1/	7.09	4.	505.	<0.01	0.008	<0.01				
546 G110	7.11	4.	680.	0.11	0.006	<0.01				
547 G109	6.89	6.	1830.	0.03	0.021	<0.01				
549 G1085	6.70	2.	520.	<0.01	0.010	<0.01				
550 6107A	7.07	<1.	455.	0.04	0.032	<0.01				
≠551 G-106A	10.72	4.	2610.	0.03	0.007	<0.01				
552 G105A	7.10	30.	660.	0.02	0.010	<0.01				
≥ 553 GNL	7.10	2.	555.	0.02	0.005	<0.01				
(GH 554 G26CA	10.72	4.	2400.	0.04	0.009	<0.01				
555 G/W	7.27	<1.	510.	0.02	0.008	<0.01				
556 6163	9.82	2.	205.	0.08	0.004	<0.01				
(QA, 557 GOZ	7.10	2.	655.	<0.01	0.006	<0.01				

Pobert N. Bucaro

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS 60188

L- 19,559A

	CHAIN (	OF C	USTO	DY	RECO	RD			
CLIENT: FOREST PRESERVE DISTRICT OF DU PAGE COUNTY			PROJ: MALLARD LAKE SITE			SAMPLER(S): D. Plomb			
SPL. NO.	SPL. LOCATION	DATE 1984	- TIME			NO. OF BTLS.	NOTES		
541	G 101 D	10-6	8:15	٠	x	1			
542	. G 101 S	10-6	8:20		х	1			
543	G 113	10-6	8:25		x	1			
544	G 112	10-6	8:35		x	1			
545	G 111	10-6	8:50		x	1			
• 546	G 110	10-6	9:00		x	1			
547	G 109	10-6	9:10		X	1			
549	G 108 S	10-6	9:25		х	1 .			
550	G 107 A	10-6	9:40		x	1			
551	G 106 A	10-6	9:50		X	1			
552	G 105 A	10-6	10:10		х	1			
553	G 102	10-6	10:55		х	1			
RELINQUISHED BY TESTING SERVICE CORPORATION			RECEIVED BY DATE - TIME						
			AQU						
			<u> </u>						
							<u>.</u>		

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS 60188

**L-**19,559A

	CHAIN C	)F C	USTO	DY	RECO	RD	
CLIENT:	FOREST PRESERVE DISTRICT OF DU PAGE COUNTY	PROJ:	RD LAKE S		SAMPLER(S): D. Plomb		
SPL. NO.	SPL. LOCATION	<b>DATE</b> 1984	- TIME		PL.TYPE TER Prab	NO. OF BTLS.	NOTES
554	G 106 A QA Split	10-5	9:50	·	x	1	
555	G 104	10-5	10:30		х	1	
556	G 103	10-5	10:40		x	1	
557	G 102 QA Split	10-5	10:55		x	1	
-							
· · · · · · · ·							·
						+	
RELINQUISHED BY		RECEIVED BY DATE - TIME					ATE - TIME
TESTI	ING SERVICE CORPORATION		AQU	JALAB,	INC.		
<u>,</u>			<u> </u>				<del></del>
					<del></del> .		

FIELD DATA CHART									
	WATER LEVEL  DEPTH IN FEET AND ELEVATION								
MONITORING WELL	1	t TO PURGING 3-84	I	PRIOR TO SAMPLING 10-5-84		SEDIMENT INSIDE CASING			
G-101S	11.78	(792.86)	16.37	(788.27)	51	23.42	(781.22)		
G-101D	39.63	(764.95)	50.35	(754.28)	50	53.87	(751.71)		
G-102 **	42.97	(765.98)	43.24	(765.71)	XX	48.21	(760.74)		
G-103 **	44.70	(756.57)	53.24	(728.04)	51	58.99	(742.29)		
G-104A**	66.23	(728.53)	66.91	(727.85)	50	94.65	(700.11)		
G-105A**	58.99	(728.45)	61.29	(726.15)	49	102.31	(685.13)		
G-106A**	43.43	(737.21)	63.45	(717.19)	48	72.90	(707.74)		
G-107A**	16.12	(757.34)	16.19	(757.27)	51	32.83	(740.63)		
G-1085 **	14.77	(769.39	15.50	(768.66)	49	29.31	(754.85)		
G-108D**	44.23	(740.96)	47.95	(737.24)	хх	48.31	(736.88)		
G-109**	20.02	(765.63)	23.28	(762.37)	49	33.71	(751.94)		
G-110 ,	40.96	(764.83)	45.58	(760.21)	50	46.34	(759.45)		
G-111	36.00	(773.48)	41.62	(767.86)	ХХ	42.41	(767.07)		
G-112	49.23	(764.28)	49.95	(763.56)	52	58.61	(754.90)		
G-113	41.60	(764.50)	48.69	(757.41)	1 49	52.98	(753.12)		

# NOTES:

<sup>\*</sup> Depth referenced to top of steel protective casing.

<sup>\*\*</sup> Well purged via a bailer due to failure to submersible pump.

XX Insufficient Sample

Files

#### MARCH 19, 1985

TO:

SUPERINTENDENT UTT

FROM:

SCOTT GERRICK, ENVIRONMENTAL CONTROL MANAGER

RE:

MALLARD LAKE DECEMBER 1984 WATER QUALITY REPORT

Attached for your review are the water quality analysis from the monitoring wells at Mallard Lake Landfill in December 1984. Water quality was also checked from E & E's office supply well.

No unusual or significant changes were noted.

Сj

#### Attachment

cc: A. White

J. Hartwig

J. Wiggins, Ill. E.P.A.



## **TESTING SERVICE CORPORATION**

457 EAST GUNDERSEN DR. • CAROL STREAM, ILLINOIS 60188-2492

Dr. Lawrence A. DuBose, P.E., S.E. President
Charles C. Luther, P.E. Executive Vice-President
Noble D. Moran Vice-President
Bruce R. Poynor Engineering Geologist
Charles R. DuBose, P.E.
Thomas J. Morris, P.E.
Scott B. Stueland, P.E.
Telephone 312 653-3920

March 15, 1985

FOREST PRESERVE DISTRICT OF DU PAGE COUNTY P. O. Box 2339 Glen Ellyn, Illinois 60138

Attention: Mr. Scott Gerrick

Environmental Control Mgr. Governmental Services Dept.

RE: L - 19,559A

MALLARD LAKE SITE

Dear Mr. Gerrick:

We have completed the December, 1984 purging and sampling work for the above referenced site and have received the analytical results from Aqualab, Inc. Our field procedures in performing this work are as outlined in previous correspondence dated September 6, 1983, with the above number. Due to low water levels, or in-accessibility, Monitoring Wells G-102, G-107A, G-109, G-110 and G-111 were purged via bailer.

Water samples obtained from the monitoring wells and the leachate collection manhole were analyzed by Aqualab, Inc. for the following parameters: pH, Total Dissolved Solids, Chloride, Lead and Zinc. Data for Chromium are also included. This is because Chromium was originally analyzed rather than Chloride as intended. A water sample was also obtained from the E & E Hauling supply well at the site. This sample was analyzed for Alkalinty, Arsenic, Barium, Calcium, Chloride, Chromium, COD, Copper, Cyanide, Hardness, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Nitrogen, pH, Phenols, Potassium, Sodium, Solids (Total Dissolved), Sulfate, Zinc and TOC. The results obtained are shown on the enclosed Aqualab, Inc. Analytical Report. The identity of the sample numbers can be determined from the enclosed Chain of Custody Record.

Also enclosed are electronic spreadsheets for each well from our computer file established for this project. This lists the analytical data obtained this quarter as well as the previous seven (7) quarters, and compares them. No unusual or significant changes were noted.

Water level measurements and water sample temperatures, along with a depth measurement to the bottom of the well or sediment inside the casing, are shown on both the electronic spreadsheets and the enclosed Field Data Chart.

March 15, 1985
FOREST PRESERVE DISTRICT
OF DU PAGE COUNTY
Attention: Mr. Scott Gerrick

L - 19,559A Page 2

It has been a pleasure to assist you with this project. Please call if there are any questions or if we can be of any further service.

Respectfully submitted,

TESTING SERVICE CORPORATION

Lawrence A. DuBose

President

LAD:DJP:js

Enclosures:

Prepared by:

Daniel J. Plomb

Geologist

#### FIELD DATA CHART

	DA 19		WATER LEVEL DEPTH IN FT. WITH ELEVATION			EVATION		DEPTH TO BOTTOM OF WELL OR
MONITORING WELL	PURGED	SAMPLED	PRIOR TO PRIOR TO PURGING SAMPLING		WATER TEMP °F	SEDIMENT INSIDE CASING		
G-101S	12-13-84	12-14-84	12.02	(792.62)	21.00	(783.64)	50	23.5
G-101D		12-14-84		(765.47)		(755.71)	49	54.6
G~102**	1	12-14-84		(767.22)		(766.14)	50	46.9
G-103	1	12-14-84		(756.98)		(744.44)	50	59.5
G-104A	[	12-14-84	64.88	(729.88)		(729.83)	49	95.6
G-105A	l i	12-14-84	55.63	(731.81	55.58	(731.86)	49	102.3
G-106A		12-14-83		(738.52)		(715.45	50	72.3
G-107A**		12-14-84	17.41	(756.05	18.32	(755.14)	50	32.8
G-108S		12-14-84		(766.32	18.01	(766.15)	50	21.9
G~108D		12-14-84	38.47	(746.72	42.24		Insufficient Sample	
G~109**	12-13-84	12-14-84	20.53	(765.12)	25.48	(760.17)	50	33.7
G~110**	12-13-84	12-14-84	40.72	(765.07)		(760.04)	49	47.4
G~111**	12-13-84	12-14-84	39.05	(771.43)	40.97	(768.51)	Insufficient Sample	42.4
G-112	12-13-84	12-14-84	49.18	(764.33)	49.48	(764.03	49	58.6
G-113	12-13-84	12-14-84	41.48	(764.62)	47.03	(759.07)	49	53.0
		NOTES:	** Ind:	icates we	lls pur	ged via ba	iteel protect iler due to well to dri	or casing cap. low water 11 rig.

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS SOISS

L- 19,559A

CLIENT:			F CUSTODY RECORD    PROJ:						
FOREST PRESERVE DISTRICT OF DU PAGE COUNTY		MAI	MALLARD LAKE			D. Plomb & R. Harris			
SPL. NO.	SPL. LOCATION	DATE - 1984	- TIME			MO. OF BTLS.	NOTES		
675	G-101S	12-14	7:55		х	1			
676	G-101D	12-14	7:45		x	1			
677	G-102	12-14	8:05		x	1			
678	G-103	12-14	8:10		х	1			
679	G-101S QA Split	12-14	7:55		х	1			
680	G-104	12-14	8:20		х	1			
681	G-113	12-14	8:40		х	1			
682	G-11 <u>2</u>	12-14	8:45		х	1			
683	G-111	12-14	8:55		х	1			
684	G-110	12-14	9:20		х	1			
685	G-109	12-14	9:35		х	1			
686	G-108S	12-14	9:50		х	1			
687	G-108D	12-14	9:55		х	1			
RELINQUISHED BY			RECEIVED BY D			DATE - TIME			
TESTI	NG SERVICE CORPORATION	AQUALAB, INC.					12-14-85		
		<del>                                     </del>							

# TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS GOISS

**L-** 19,559A

	CHAIN C	OF CUSTO	DY	RECO	ORD	•	
FOREST PRESERVE DISTRICT OF DU PAGE COUNTY		PROJ: MALLARD	LAKE	SAMPLER(S): D. Plomb & R. Harri			
SPL. NO.	SPL. LOCATION	DATE - TIME	W/	SPL.TYPE LYER Frab	OF BTLS.	NOTES	
688	MANHOLE: Leachate Collection System	12-14 10:05		х	4		
689	G-105A	12-14 10:20		х	1		
690	G 106A	12-14 10:40		х	1		
691 ·	G-108A QA Split	12-14 9:55		х	1		
692	G-107A	12-14 10:55		x	1	·	
693	E & E BUILDING	12-14 11-15		х	2		
					+		
		,					
						منيواست بسران	
RELINQUISHED BY		25	RECEIVED BY DAT				
TESTING SERVICE CORPORATION		AQUA	1	12-14-85			
•							
			<u>.</u>				
			····			دنين المساحد والمساود المنا	



#### ANALYTICAL REPORT

**Sample No.** 60806A-823A

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

Date Requested: 2/22/85

Sample Description	Chloride mg/L
675	14.
676	32.
677	<1.
678	2.
679	14.
680	2.
681	<1.
682	126.
683	2.
684	2.
685	2.
686	2.
687	4.
688	216.
689	36.
690	2.
691	4.
692	4.

Robert 1 Bucan

Robert N. Bucaro

850 W. Bartlett Road Bartlett, Illinois 60103 312/289-3100



11 February 1985

#### ANALYTICAL REPORT

**Sample No.** 60806

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 675

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.38	units
Solids, tot. diss.	467.	mg/L
Zinc	<0.001	mg/L

Pokert N. Bucaro
Robert N. Bucaro

# 11 February 1985



#### ANALYTICAL REPORT

Sample No. 60807

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 676** 

Date Taken:	12/14/84	Date Received:	12/14/84
Filtered:			
	Chromium, tot.	<0.001	mg/L
	Iron	<0.01	mg/L
	Lead	<0.01	mg/L
	рH	7.40	units
	Solids, tot. diss.	457.	mg/L
	Zinc	0.003	mg/L

obert 1 Bucaro
Robert N. Bucaro

11 February 1985



#### ANALYTICAL REPORT

Sample No. 60808

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 677** 

Date lakell. 12/14/04 Date Received. 12/14.	Date Taken:	12/14/84	Date Received:	12/14/84
---	-------------	----------	----------------	----------

#### Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.26	units
Solids, tot. diss.	627.	mg/L
Zinc	<0.001	mg/L

Robert N. Bucaro

## 11 February 1985



### ANALYTICAL REPORT

**Sample No.** 60809

Mr. Bruce Poyner
TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 678** 

Date Taken	: 12/14/84	Date Received:	12/14/84
Filtered:			
	Chromium, tot.	<0.001	mg/L
	Iron	0.03	mg/L
	Lead	<0.01	mg/L
	рH	11.06	units
	Solids, tot. diss.	1287.	mg/L
	Zinc	<0.001	mg/L

Robert N. Bucaro



### **ANALYTICAL REPORT**

Sample No. 60810

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 679** 

Date Taken:	12/14/84	Date Received:	12/14/84
Filtered:			

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
pH	7.02	units
Solids, tot. diss.	590.	mg/L
Zinc	0.007	mg/L

Robert A Bucaro



Sample No. 60811

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 680** 

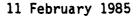
Zinc

Date Taken: 12/14/84 Date Received: 12/14/84 Filtered: Chromium, tot. <0.001 mg/L Iron <0.01 mg/L Lead <0.01 mg/L 7.09 units рΗ Solids, tot. diss. 547. mg/L

0.006

Pobert 1 Bucaro
Robert N. Bucaro

mg/L





**Sample No.** 60812

Date Received: 12/14/84

0.003

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 681** 

Zinc

Date Taken: 12/14/84

Filtered:			
	Chromium, tot.	<0.001	mg/L
	Iron	<0.01	mg/L
	Lead	<0.01	mg/L
	рН	7.39	units
	Solids, tot. diss.	410.	mg/L

Robert N. Bucaro

mg/L



**Sample No.** 60813

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 682** 

Date Taken: 12/14/84 Date Received: 12/14/84

# Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	6.83	units
Solids, tot. diss.	2063.	mg/L
Zinc	0.010	mg/L

Robert 1 Bucaso
Robert N. Bucaro



# ANALYTICAL REPORT

Sample No. 60814

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 683** 

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.27	units
Solids, tot. diss.	550.	mg/L
Zinc	0.003	mg/L

Pobert 1 Bucaro Robert N. Bucaro



Sample No. 60815

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 684** 

Date Taken:	12/14/84	Date Received:	12/14/84

## Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.38	units
Solids, tot. diss.	523.	mg/L
Zinc	<0.001	mg/L

Robert N. Bucaro





**Sample No.** 60816

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 685** 

Date Taken:	12/14/84	Date Received:	12/14/84

## Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	6.84	units
Solids, tot. diss.	1313.	mg/L
Zinc	-0.017	mg/L



Sample No. 60817

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 686

Date Taken: 12/14/84 Date Received: 12/14/84

### Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	6.60	units
Solids, tot. diss.	670.	mg/L
Zinc	0.012	mg/L



**Sample No.** 60818

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 687** 

Date	Taken:	12/14/84	Date Received:	12/14/84
Date	I a Keii .	14/17/07	Date Necelveu.	14/17/07

# Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рH	7.58	units
Solids, tot. diss.	1460.	mg/L
Zinc	0.005	mg/L

Pobert 1 Bucaro
Robert N. Bucaro



**Sample No.** 60819

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 688** 

Date Taken:	12/14/84	Date Received:	12/14/84
Filtered:			
	Chromium, tot.	<0.001	mg/L
	Iron	<0.01	mg/L
	Lead	<0.01	mg/L
	рH	7.58	units
	Solids, tot. diss.	2183.	mg/L
	Zinc	0.005	mg/L



### ANALYTICAL REPORT

**Sample No.** 60820

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION:** 689

Date Taken:	12/14/84	Date Received:	12/14/84
<u>Filtered:</u>			
	Chromium, tot.	<0.001	mg/L
	Iron	<0.01	mg/L
	Lead	<0.01	mg/L
	рН	7.02	units
	Solids, tot. diss.	757.	mg/L
	Zinc	<0.001	mg/L



**Sample No.** 60821

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 690** 

Date Taken:	12/14/84	Date Received:	12/14/84
Filtered:			
	Chromium, tot.	<0.001	mg/L
	Iron	<0.01	mg/L
	Lead	<0.01	mg/L
	pH	11.31	units
	Solids, tot. diss.	2810.	mg/L
	Zinc	0.005	mg/L

Pobert n Bucaro
Robert N. Bucaro



### ANALYTICAL REPORT

**Sample No.**60822

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 691** 

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	0.09	mg/L
Lead	<0.01	mg/L
рН	7.55	units
Solids, tot. diss.	1593.	mg/L
Zinc	0.006	mg/L



**Sample No.** 60823

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 692** 

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
pH	7.10 ·	units
Solids, tot. diss.	507.	mg/L
Zinc	0.006	mg/L

Obert 1 Bucaco
Robert N. Bucaco



**Sample No.** 60824

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

**SAMPLE DESCRIPTION: 693** 

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Alkalinity (CaCO <sub>3</sub> )	216.	mg/L
Arsenic	<0.001	mg/L
Barium	<0.01	mg/L
Cadmium	<0.001	mg/L
Chloride	60.	mg/L
Chromium, tot.	<0.001	mg/L
COD	208.	mg/L
Copper	<0.001	mg/L
Cyanide, tot.	<0.001	mg/L
Hardness (CaCO <sub>3</sub> )	380.	mg/L
Iron, tot.	<0.01	mg/L
Lead	<0.01	mg/L
Magnesium	45.5	mg/L
Manganese	0.012	mg/L
Mercury	<0.0001	mg/L
Nickel	<0.01	mg/L
Nitrogen, ammonia	0.31	mg/L
pH	7.32	units
Phenols	<0.002	mg/L
Potassium	2.40	mg/L
Sodium	43.6	mg/L
Solids, tot. diss.	616.	mg/L
Sulfate	135.	mg/L
Zinc	0.059	mg/L
TOC	14.2	mg/L

obert Bucaro
Robert N. Bucaro